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Heart valve prosthesis has through passage with wall at least partly formed by flexible valve components with free outer ends and movable radially for opening and closing through passage

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Novelty: The heart valve prosthesis (1) has a through passage with a wall at least partly formed by flexible valve components with free outer ends and movable radially for opening and closing the through passage. A first stiffening ring (4) is concentrically connected with the through passage at an input side of the heart valve and is made of a flexible, elastic material.

Detailed Description: A second such ring (5) is connected with the through passage at an output side of the heart valve. Stiffening ribs (7A) extend from the first stiffening ring in an axial direction between membranes. They are directly, elastically connected with the first stiffening ring. In an unloaded state they extend radially outwards. They are also directly, elastically connected with the second stiffening ring. The two rings are made of crossways woven bio-compatible thread.

Use: As a heart valve prosthesis.

Advantage: The prosthesis can be implanted without resorting to an open heart operation or for it to be sutured.

Description of Drawing(s): The figure presents a perspective plan view of a first version of the prosthesis in the closed state.

heart valve prosthesis 1

first and second stiffening rings 4,5

stiffening ribs 7A
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